10/707569

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```
Set     Items    Description
S1       998     SENS? (S) VEHICLE (S) VISION
S2       998     S1 AND (VISUAL? OR VISION?)
S3       331     S2 AND (COORDINAT? OR POSITION?)
S4         3     S3 AND (DETECT? (3N) SIGNAL?)
S5         3     RD  (unique items)
```

5/3,KWIC/1   (Item 1 from file: 8)
DIALOG(R)File   8:Ei Compendex(R)
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06015642   E.I. No: EIP02106878632
 **Title: A study on recognition of road lane and movement of vehicles using
 vision system**
   Author: Lee, K.S.; Lee, Jin-Woo; Choi, Sung-Uk; Lee, Young-Jin
   Corporate Source: Department of Electrical Engineering Dong-A University,
Saha-gu, Pusan, 604-714, South Korea
   Conference Title: 40th SICE Annual Conference
   Conference Location: Nagoya, Japan   Conference Date: 20010725-20010727
   E.I. Conference No.: 59032
   Source: Proceedings of the SICE Annual Conference 2001. p 38-41 (IEEE cat
n 01TH8603)
   Publication Year: 2001
   CODEN: PSIAEV
   Language: English

   **Title: A study on recognition of road lane and movement of vehicles using
   vision system**
     ...Abstract: the road lane. This algorithm performs to recognize the
interrelation between AGV and the other vehicle . We experimented on AGV
driving test with color CCD camera that was set on the top of   vehicle
and acquired the digital signal. This paper is composed of two parts. One
is the reprocessing part to measure the condition of the lane and vehicle
. This method finds the information of lines using RGB ratio cutting
algorithm, the edge detection...

   ...using the image processing and view-port. At first, 2-dimensional image
information, derived from vision sensor , is interpreted to the
3-dimension information by the angle and position of the CCD camera.
Through these processes, if the vehicle knows the driving conditions,
which include the lane angle, distance error and real   position of other
vehicles, we should calculate the reference steering angle as human
driving. 8 Refs.
   Descriptors: *Intelligent vehicle highway systems; Collision avoidance;
Computer vision ; Algorithms; Unmanned vehicles; Video cameras; Digital
signal processing; Edge detection ; Hough transforms; Image sensors;
Three dimensional computer graphics; Image analysis; Steering

    5/3,KWIC/2   (Item 1 from file: 63)
DIALOG(R)File   63:Transport Res(TRIS)
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00743066   DA
 TITLE: MARRIAGE MADE IN MICHIGAN
AUTHOR(S): VINGER, S
CORPORATE SOURCE: UK & INTERNATIONAL PRESS, 120 SOUTH STREET, DORKING,
     SURREY, RH4 2EU , UNITED KINGDOM
JOURNAL: TRAFFIC TECHNOLOGY INTERNATIONAL   Issue Number: 11   Pag: 51-4
PUBLICATION DATE: 19970000   PUBLICATION YEAR: 1997
LANGUAGE: ENGLISH   SUBFILE: IRRD   (I)
IRRD DOCUMENT NUMBER: 893191
ISSN: 1356-9252
DATA SOURCE: Transport Research Laboratory (TRL)

   ...ABSTRACT: Program in Oakland County, MI, USA has become the world's
     largest installation of machine- vision -based vehicle   detection

for adaptive traffic signal control of intersections. It uses more
than 275 Autoscope processors with more than 1000 image sensors . It
demonstrates the effectiveness of integrating Intelligen t Transport
Systems (ITS) to improve mobility, reduce road accidents, and create a
traffic information and incident management centre. It also
successfully coordinates surveillance, signal control, and traffic
information systems. It monitors the traffic flow at each SCATS...
...over 1000 junctions. The video detection system can detect traffic in
multiple locations within the sensor 's field of view, and process
video from up to four sensors . A typical junction has one image
sensor for each of its approaches. The Autoscope system's coverage
equals that of 6000 inductive loop sensors . Ways of establishing
remote communications links to each Autoscope unit are being explored,
so that...

   5/3,KWIC/3   (Item 2 from file: 63)
DIALOG(R)File 63:Transport Res(TRIS)
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00721119   DA
 TITLE: ENGINEERED VISIBILITY WARNING SIGNALS: AN IDEA PROJECT
AUTHOR(S): Cohn, TE
CORPORATE SOURCE: Vertis. Vehicle, Road and Traffic Intelligence Society,
    2-3-18, Kudan-Minami, Chiyoda-ku, Tokyo 120, Japan
REPORT NUMBER: Volume 1
Pag: p 452
SUPPLEMENTAL NOTES: Five volumes of papers and one volume of abstracts
    comprise the published set of conference materials.
PUBLICATION DATE: 19951100   PUBLICATION YEAR: 1995
LANGUAGE: English   SUBFILE: HRIS   (H)
ISSN: N/A
AVAILABILITY: Vertis. Vehicle, Road and Traffic Intelligence Society;
    2-3-18, Kudan-Minami, Chiyoda-ku   ; Tokyo; Japan
ORDER NUMBER: N/A
CONFERENCE TITLE: Steps Forward. Intelligent Transport Systems World
    Congress

...ABSTRACT: new warning signals whose purpose is to alert the driver to
    incipient difficulties related to vehicle operation, proximity of
    other vehicles, driving conditions, and vehicle position . In this
    study, the optimal configuration of these signals at the driver's eye
    is...

...such signals while minimizing the time to react. Accumulated research in
    the human factors and vision literature points to a number of
    constraints and desirable properties that a warning signal display must
    satisfy. Using this work, plus known characteristics of the human
    visual system, a set of specifications for the warning signal display
    is developed. Specifications include temporal, chromatic, and spatial
    characteristics of the visual stimuli to be used as warning signals.
    A proprietary process is incorporated in the design that is thought to
    optimize both signal detectability and salience by supplying
    visual warning signal optimized for processing by the fastest and most
    sensitive nervous pathway in the human visual system. The project
    will rigorously test human performance with a display that satisfied
    these specifications...
DESCRIPTORS: WARNING SIGNALS; DRIVER REACTION; VISUAL BEHAVIOR; HUMAN
    PERFORMANCE; INTELLIGENT TRANSPORTATION SYSTEMS; UNITED STATES
?